

WHAT IS CLAIMED IS:

1. An antimicrobial suture assembly comprising:

(a) a containment compartment comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof, in an amount sufficient to substantially inhibit bacterial colonization on said containment compartment; and

(b) a suture positioned within the containment compartment, the suture comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof; and at least one active agent selected from the group consisting of a biocide, a disinfectant, an antiseptic, an antibiotic, an antimicrobial peptide, a lytic bacteriophage, a surfactant; an adhesion blocker; an oligonucleotide, an efflux pump inhibitors; a photosensitive dye, an immune modulator and a chelator.

2. A packaged suture having antimicrobial properties comprising:

(a) an outer package comprising an inner surface having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof, in an amount sufficient to substantially inhibit bacterial colonization on said inner surface of said outer package; and

(b) a suture assembly comprising:

(i) a containment compartment comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof, in an amount sufficient to substantially inhibit bacterial colonization on said containment compartment; and

(ii) a suture positioned within the containment compartment, the suture comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof; and at least one active agent selected from the group consisting of a biocide, a disinfectant, an antiseptic, an antibiotic, an antimicrobial peptide, a lytic bacteriophage, a surfactant; an adhesion blocker; an oligonucleotide, an efflux pump inhibitors; a photosensitive dye, an immune modulator and a chelator.

3. A packaged medical device having antimicrobial properties, comprising:

(a) at least one hermetically sealed package comprising an inner surface having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl

ethers, and combinations thereof, in an amount sufficient to substantially inhibit bacterial colonization on said package; and

(b) at least one implantable medical device positioned within said at least one hermetically sealed package, said medical device comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof; and at least one active agent selected from the group consisting of a biocide, a disinfectant, an antiseptic, an antibiotic, an antimicrobial peptide, a lytic bacteriophage, a surfactant; an adhesion blocker; an oligonucleotide, an efflux pump inhibitors; a photosensitive dye, an immune modulator and a chelator.

4. A packaged medical device having antimicrobial properties, comprising:

(a) at least one package comprising an inner surface having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof, in an amount sufficient to substantially inhibit bacterial colonization on said package; and

(b) at least one implantable medical device positioned within said at least one package, said medical device being selected from the group consisting of sutures, surgical meshes, hernia plugs, brachy seed spacers, suture clips, suture

anchors, adhesion prevention meshes and films, and suture knot clips; and said medical device comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof; and at least one active agent selected from the group consisting of a biocide, a disinfectant, an antiseptic, an antibiotic, an antimicrobial peptide, a lytic bacteriophage, a surfactant; an adhesion blocker; an oligonucleotide, an efflux pump inhibitors; a photosensitive dye, an immune modulator and a chelator.